

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for placing a call between a first client and a second client, the method comprising:
 - receiving a SIP call request message;
 - challenging a device that originated the SIP call request message to authenticate itself, ~~whereby the device performs~~ performing a first authentication process based on a username and a password associated with the device to generate a first authentication result as a result of authenticating itself;
 - authenticating the SIP call request message by performing a second authentication process based on the username and the password associated with the device to generate a second authentication result and comparing the second authentication result to the first authentication result, ~~whereby an authentic originating client is identified; [[and]]~~
 - identifying an authentic originating client when the second authentication result matches the first authentication result;
 - searching a database to ~~[[find]]~~ determine whether the database includes a ~~predetermined~~ client billing tag that identifies the authentic originating client as a party responsible for paying for the call, ~~whereby;~~
 - authorizing the call is authorized to be completed if the client billing tag is ~~obtained;~~ included in the database; and

not authorizing the call ~~is not authorized~~ to be completed if the client billing tag is not ~~obtained~~ included in the database.

2. (currently amended) The method of claim 1, further comprising:
inserting the client billing tag into the SIP call request message; and
transmitting the SIP call request message to a gateway after the client billing tag is
inserted into the SIP call request message.

3. (currently amended) The method of claim 2, ~~wherein~~ further comprising
providing, by the gateway, ~~provides~~ a network operating support system with the client billing
tag.

4. (previously presented) The method of claim 1, wherein at least one of the first
authentication process or the second authentication process includes performing a calculation
using a hash algorithm.

5. (previously presented) The method of claim 1, further comprising evaluating a
profile of the second client, the profile including information corresponding to at least one
calling feature activated by the second client.

6. (currently amended) The method of claim 5, ~~wherein~~ further comprising inserting, by a server, ~~inserts the~~ a client billing tag corresponding to the second client into the SIP call request message based on the at least one calling feature.

7. (currently amended) The method of claim 6, ~~wherein~~ further comprising transmitting, by the server, ~~transmits the~~ the SIP call request message to a gateway after the client billing tag corresponding to the second client is inserted into the SIP call request message.

8. (previously presented) The method of claim 6, wherein a gateway provides a network operating support system with the client billing tag.

9. (original) The method of claim 5, wherein the at least one calling feature includes a call forwarding command.

10. (original) The method of claim 5, wherein the at least one calling feature includes a call transfer command.

11. (currently amended) The method of claim 1, further comprising:
evaluating at least one calling feature activated by the second client;
determining the authentic originating client based on the at least one calling feature;
retrieving the client billing tag corresponding to the authentic originating client; and

inserting the client billing tag corresponding to the authentic originating client into the SIP call request message.

12. (currently amended) The method of claim 11, ~~wherein~~ further comprising transmitting, by a server, transmits the call request message to a gateway after the client billing tag is inserted into the call request message.

13. (original) The method of claim 11, wherein the at least one calling feature includes a call forwarding command.

14. (original) The method of claim 11, wherein the at least one calling feature includes a call transfer command.

15. (currently amended) The method of claim 1, further comprising:
adding a header to the SIP call request message, the header including a server identifier;
and
transmitting the SIP call request message to a gateway, the gateway being configured to complete the call if the header is detected and not complete the call if the header is not detected.

16. (currently amended) The method of claim 1, further comprising:
checking the SIP call request message for the presence of a header, the header including a server identifier; and

completing the call if the header is detected.

17. (original) The method of claim 16, wherein the call is not completed if the header is not detected.

18. (withdrawn) The method of claim 1, wherein the first client is a SIP-telephone and the second client is a SIP-telephone.

19. (withdrawn) The method of claim 1, wherein the first client is a SIP-telephone and the second client is a standard telephone coupled to a PSTN.

20. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client is coupled to a network gateway.

21. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client is coupled to an enterprise gateway.

22. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client includes a SIP voicemail server.

23. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client includes a SIP conferencing server.

24. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client is coupled to a DAL gateway.

25. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client includes a client PBX system.

26. (withdrawn) The method of claim 1, wherein at least one of the first client or the second client includes a personal computer.

27. (currently amended) A computer-readable medium having computer executable instructions for performing a method for placing a call between a first client and a second client, the ~~method~~ computer-readable medium comprising:

instructions for receiving a call request message;

instructions for challenging a device that originated the call request message to authenticate itself, ~~whereby the device generates~~ generating an authentication result as a result of authenticating itself;

instructions for authenticating the call request message based on the authentication result, ~~whereby to identify~~ an authentic originating client is ~~identified~~;

instructions for searching a database to ~~find a predetermined~~ identify whether the database includes a client billing tag that identifies the authentic originating client as a party responsible for paying for the call, ~~whereby the call is authorized to be completed if the client~~

~~billing tag is obtained, and the call is not authorized to be completed if the client billing tag is not obtained;~~

instructions for not authorizing the call to be completed if the database does not include the client billing tag;

instructions for authorizing the call to be completed if the database includes the client billing tag;

instructions for inserting the client billing tag into the call request message when the call is authorized to be completed; and

instructions for forwarding the call request message with the inserted client billing tag when the call is authorized to be completed.

28. (currently amended) A computer-readable medium having computer executable instructions for performing a method for placing a call between a first client and a second client, the ~~method~~ computer-readable medium comprising:

instructions for receiving, by a SIP server, a SIP call request message;

instructions for challenging, by the SIP server, a device that originated the SIP call request message to authenticate itself, ~~whereby~~ the device ~~generates~~ generating an authentication result as a result of authenticating itself;

instructions for authenticating, by the SIP server, the SIP call request message based on the authentication result, ~~whereby~~ to identify an authentic originating client ~~is identified;~~

instructions for searching, by the SIP server, a database to find a client billing tag that identifies the authentic originating client as a party responsible for paying for the call;

instructions for inserting, by the SIP server, the client billing tag into the SIP call request message; and

instructions for transmitting, by the SIP server, the SIP call request message to ~~[[the]]~~ a gateway.

29. (currently amended) The ~~method~~ computer-readable medium of claim 28, further comprising:

instructions for completing, by the SIP server, ~~wherein a server completes~~ the call if the client billing tag is obtained; ~~[[,]]~~ and

instructions for not completing, by the SIP server, ~~does not complete~~ the call if the client billing tag cannot be obtained.

30. (currently amended) The ~~method~~ computer-readable medium of claim 28, wherein ~~[[a]]~~ the gateway provides a network operating support system with the client billing tag and call statistics after receiving the SIP call request message from ~~[[a]]~~ the SIP server.

31. (currently amended) A ~~computer readable medium having computer executable instructions for performing a~~ method for placing a call between a first client and a second client, the method comprising:

receiving a SIP call request message from the first client;

challenging a device that originated the SIP call request message to authenticate itself,
~~whereby~~ the device ~~generates~~ generating an authentication result as a result of authenticating
itself;

evaluating at least one calling feature in a profile of the second client;

determining an authentic originating client based on the at least one calling feature and
the authentication result;

retrieving ~~[[the]]~~ a client billing tag that identifies the authentic originating client as a
party responsible for paying for the call; and

inserting the client billing tag into the SIP call request message.

32. (currently amended) The method of claim 31, ~~wherein~~ further comprising
transmitting, by a server, ~~transmits~~ the SIP call request message to a gateway after the client
billing tag is inserted into the SIP call request message.

33. (currently amended) The method of claim 32, ~~wherein~~ further comprising
providing, by the gateway, ~~provides~~ a network operating support system with the client billing
tag and at least one call statistic after the call is completed.

34. (original) The method of claim 31, wherein the at least one calling feature
includes a call forwarding command.

35. (original) The method of claim 31, wherein the at least one calling feature includes a call transfer command.

36. (currently amended) The method of claim 31, wherein ~~[[a]] the party to be billed~~ responsible for paying for the call is the first client.

37. (currently amended) The method of claim 31, wherein ~~[[a]] the party to be billed~~ responsible for paying for the call is the second client.

38. (currently amended) A computer-readable medium having computer executable instructions for performing a method for placing a call between a first client and a second client, ~~the method~~ computer-readable medium comprising:

instructions for receiving a SIP call request message;

instructions for adding a header to the SIP call request message, the header including a server identifier to identify a server from which ~~sending~~ the SIP call request message was received; and

instructions for transmitting the SIP call request message and the header to a network gateway.

39. (currently amended) The ~~method~~ computer-readable medium of claim 38, wherein the gateway is configured to complete the call if the header is present and not complete the call if the header is not present.

40. (currently amended) A computer-readable medium having computer executable instructions for performing a method for placing a call between a first client and a second client, the ~~method~~ computer-readable medium comprising:

instructions for receiving a SIP call request message;

instructions for checking the SIP call request message for a server identifier in a security header appended to the SIP call request message, the server identifier identifying a server ~~that~~ forwarded from which the SIP call request message was received; and

instructions for completing the call based on existence of the server identifier in the security header.

41. (currently amended) The ~~method~~ computer-readable medium of claim 40, wherein the call is completed if the security header is present.

42. (currently amended) The ~~method~~ computer-readable medium of claim 40, wherein the call is not completed if the header is not present.

43. (currently amended) A system for placing a call between a first client and a second client, the system comprising:

a SIP server configured to:

challenge a device that originated the call by requesting the device to authenticate itself, ~~whereby the device performs~~ performing a first authentication process based on a

username and password associated with the device to generate a first authentication result as a result of authenticating itself,

process a SIP call request message received from the first client to determine an authentic originating client by performing a second authentication process based on the username and the password associated with the device to generate a second authentication result and comparing the second authentication result with the first authentication result,

obtain a client billing tag that identifies the authentic originating client as a party responsible for paying for the call; and

a network gateway coupled to the SIP server, the network gateway being configured to provide at least one of the first client or the second client conditional access to a public switched telephone network.

44. (previously presented) The system of claim 43, wherein the server transmits the SIP call request message to the network gateway if the client billing tag is obtained, and does not transmit the call request message to the network gateway if the client billing tag cannot be obtained.

45. (previously presented) The system of claim 43, wherein the SIP server is configured to insert the client billing tag into the SIP call request message and transmit the call request message to the network gateway.

46. (original) The system of claim 45, further comprising a network operation support system coupled to the network gateway, the network gateway being configured to transmit the client billing tag to the network operation support system after the call is completed.

47. (previously presented) The system of claim 43, wherein the SIP server identifies the authentic originating client by evaluating a profile of the second client.

48. (original) The system of claim 47, wherein the profile includes information corresponding to at least one calling feature activated by the second client.

49. (previously presented) The network of claim 48, wherein the SIP server inserts a client billing tag corresponding to the second client based on the at least one calling feature.

50. (previously presented) The network of claim 43, wherein the SIP server is configured to add a header to the SIP call request message.

51. (previously presented) The network of claim 50, wherein the network gateway is configured to complete the call if the header is detected and not complete the call if the header is not detected.

52. (withdrawn) The method of claim 43, wherein the first client is a SIP-telephone and the second client is SIP-telephone.

53. (withdrawn) The method of claim 43, wherein the first client is a SIP-telephone and the second client is a standard telephone coupled to a PSTN.

54. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client is coupled to the network gateway.

55. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client is coupled to an enterprise gateway.

56. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client includes a SIP voicemail server.

57. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client includes a SIP conferencing server.

58. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client is coupled to a DAL gateway.

59. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client includes a client PBX system.

60. (withdrawn) The method of claim 43, wherein at least one of the first client or the second client includes a personal computer.

61. (currently amended) A server system for placing a call between a first client and a second client, the system comprising:

a database configured to store at least one client billing tag; and

a processor coupled to the database, the processor being programmed to:

challenge a device that originated the call by requesting the device to authenticate itself, ~~whereby the device performs~~ performing a first authentication process based on a username and password associated with the device to generate a first authentication result as a result of authenticating itself,

process a SIP call request message to identify an authentic originating client by performing a second authentication process based on the username and the password associated with the device to generate a second authentication result and comparing the second authentication result with the first authentication result, [[and]]

search the database to find the client billing tag that identifies the authentic originating client as a party responsible for paying for the call, ~~whereby the server system allows~~

allow the call to be completed if the client billing tag is obtained, and

~~does~~ not allow the call to be completed if the client billing tag cannot be obtained.

62. (currently amended) The system of claim 61, wherein the processor is programmed to insert the client billing tag into the SIP call request message.

63. (currently amended) The system of claim 62, wherein the processor is programmed to transmit the SIP call request message with the client billing tag to a network gateway.

64. (currently amended) The system of claim 61, wherein the processor is further programmed to:

add a header to the SIP call request message, the header including a server identifier identifying the server system that forwards the call request message; and
transmit the SIP call request message and header to a network gateway.

65. (canceled)

66. (currently amended) A network gateway system for placing a call between a first client and a second client, the system comprising:

a communications interface for establishing a call with a circuit switched network; and
a processor coupled to the communications interface, the processor being programmed to:
receive a SIP call request message;

check the SIP call request message for existence of a security header appended to the SIP call request message, the security header including a server identifier identifying a server that forwarded the SIP call request message; and

complete the call based on the existence of the security header including the server identifier.

67. (previously presented) The system of claim 66, wherein the call is completed if the header exists.

68. (previously presented) The system of claim 66, wherein the call is not completed if the header does not exist.

69-74. (canceled)

75. (previously presented) The method of claim 1, wherein authenticating the call request message includes:

receiving the username and the first authentication result from the device,

determining a password that corresponds to the username,

performing a hash function based on the username and password, and

determining whether a result of the hash function matches the first authentication result.

76. (previously presented) The method of claim 27, wherein authenticating the call request message includes:

- receiving a user name and the authentication result from the device,
- determining a password that corresponds to the user name,
- performing a hash function based on the user name and password, and
- determining whether a result of the hash function matches the authentication result.

77. (previously presented) The method of claim 28, wherein authenticating the SIP call request message includes:

- receiving a user name and the authentication result from the device,
- determining a password that corresponds to the user name,
- performing a hash function based on the user name and password, and
- determining whether a result of the hash function matches the authentication result.

78. (previously presented) The method of claim 31, wherein authenticating the SIP call request message includes:

- receiving a user name and the authentication result from the device,
- determining a password that corresponds to the user name,
- performing a hash function based on the user name and password, and
- determining whether a result of the hash function matches the authentication result.

79. (previously presented) The system of claim 43, wherein the SIP server is further configured to:

- receive the username and the first authentication result from the device,
- determine a password that corresponds to the username,
- perform a hash function based on the username and password, and
- determine whether a result of the hash function matches the first authentication result.

80. (previously presented) The system of claim 61, wherein the processor is further programmed to:

- receive the username and the first authentication result from the device,
- determine a password that corresponds to the username,
- perform a hash function based on the username and password, and
- determine whether a result of the hash function matches the first authentication result.